



600 Series Integrated Circuit POWER SUPPLIES

FEATURES

- Output to 10 amps
- Excellent Transient Response
- Low Line and Load Regulation
- Adjustable Voltage
- Current Limit Short Circuit Protection
- High Speed Crow Bar Overvoltage Protection
- Convection Cooled
- **LOW PRICE!! From \$125**

DESCRIPTION

The RO 600 Series power supplies are designed specifically for digital integrated circuits. They feature excellent transient response, regulation, and ripple. A special high speed regulator is used to achieve the superior transient response. These power supplies are protected by their current limiting features and are short-circuit proof. Protection can be provided to the load by an optional built-in crow bar circuit that is extremely fast acting, with excellent stability and design to protect the IC loads from all types of faults.



From \$125

SPECIFICATIONS

DC output	4.5 to 5.5 volts adj (3.6 volt models available) 5 amps Model 605 10 amps Model 610	Cooling	By convection, no forced air required
Input	105 to 130 VAC, 45 to 440 Hz	Operating Temperature	-25 to +55°C
Regulation	±0.1% for ±10% change in input voltage less than 0.25% for zero to full load change	Remote Sensing	Sensing terminals provided to enable specific regulation directly at load.
Ripple and Noise	less than 1 mvpp	Stability	Output voltage changes less than 0.05% over a 24 hour period after warm up.
Transient response	125 mv for 30 μ sec for change of half-load to full-load current or vice versa. 250 mv for 30 μ sec for change of no-load to full-load current or vice versa.	Temperature coefficient	Output voltage changes less than 0.05% / °C over -25 to +55°C ambient
Power supply protection	current limited at 120% of rated load: short circuit proof	Output impedance	See regulation and transient response specifications
Load protection	Optional fast response crow bar, will not exceed adjustable trip point voltage for transients with rise times slower than 0.2 volts/ μ sec Will not exceed static trip point volts for more than 200 nanoseconds for step function overvoltage.	Controls	Built in potentiometer adjusts output voltage from 4.5 to 5.5 volts with resolution of 15 mv. Built in potentiometer adjusts crow bar static trip point with resolution of 15 mv

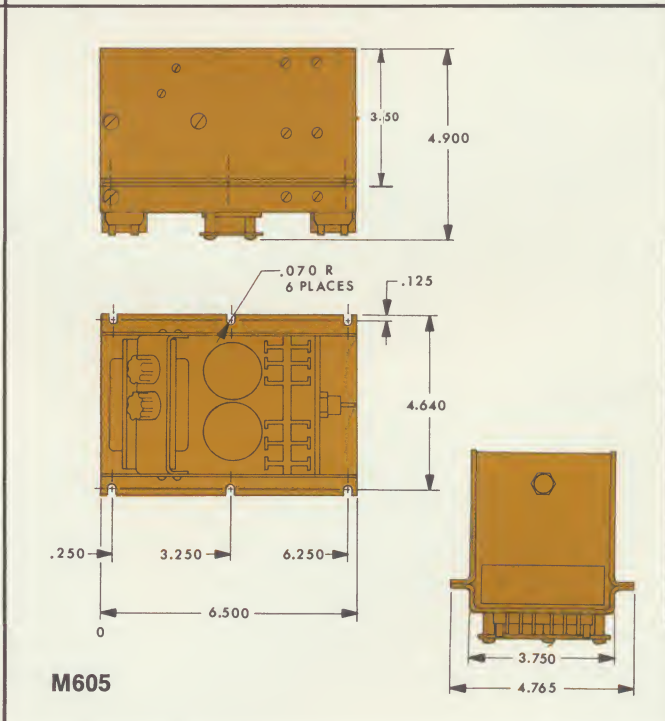
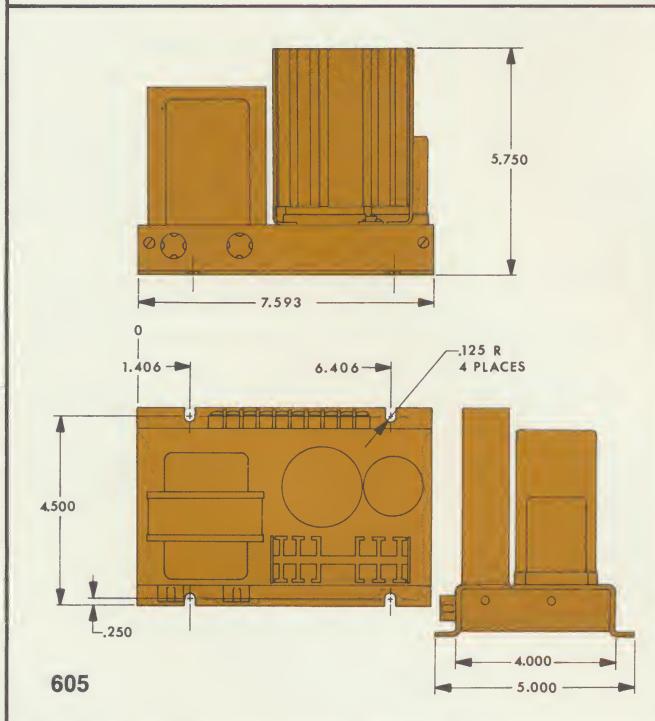
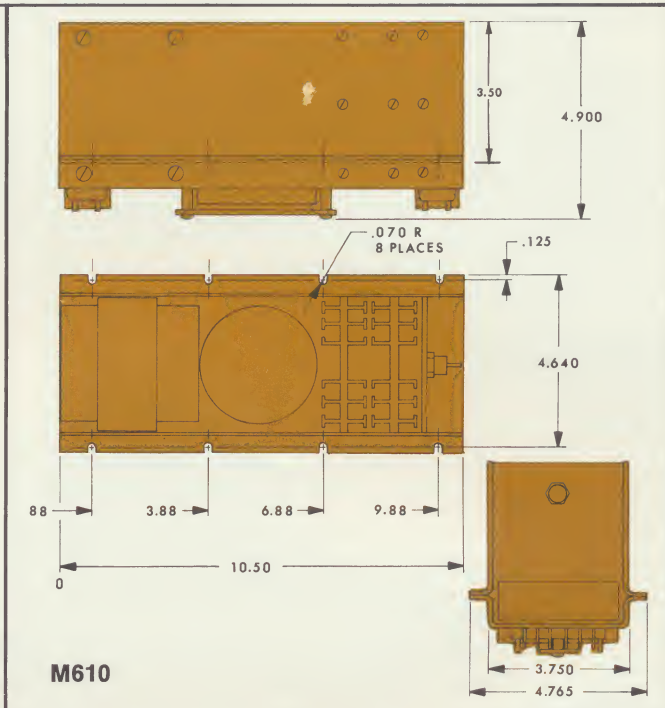
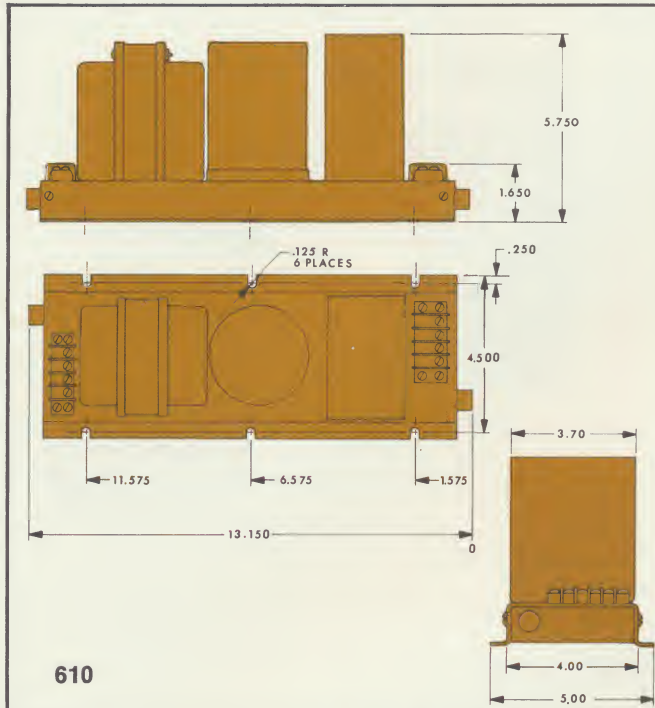
Specification Drawings on Reverse Side

ORDERING INFORMATION	605, M605	610, M610	Crow Bar
Price	\$125.00	\$139.00	\$18.00 additional
Shipping Weight	7 lbs.	12 lbs.	
Delivery	stock to 2 weeks		
Terms	Net 30 days		

RO ASSOCIATES, Incorporated / 917 Terminal Way / San Carlos, California 94070 / (415) 591-9443



600 Series Integrated Circuit POWER SUPPLIES



ORDER FROM FACTORY OR LOCAL RO REPRESENTATIVE

Albuquerque, New Mexico, (505) 265-1020; Philadelphia, Pennsylvania (215) 822-2553; Chicago, Illinois (312) 775-5300; Cumberland, Rhode Island, (401) 333-5054; Dallas, Texas, (214) 363-1526; Englewood, Colorado, (303) 781-0912; Fairborn, Ohio, (513) 878-2631; Houston, Texas, (713) 649-5756; Livonia, Michigan, (313) 476-5758; Lodi, New Jersey, (201) 845-6668; Minneapolis,

Minnesota, (612) 922-7011; Orlando, Florida, (305) 855-0274; Scottsdale, Arizona, (602) 947-4336; Seattle, Washington, (206) 622-0622; Silver Spring, Maryland, (301) 587-5115; St. Louis, Missouri, (314) 428-5313; Van Nuys, California, (213) 873-6862; Export, New York, (212) 581-4447

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NEW—for Integrated Circuit Systems

FEATURES

1. Short-circuit proof; current limiting
2. Overvoltage protection
3. Excellent Regulation & Transient Response
4. Convection Cooling
5. High Quality — All Silicon
6. Low Price

FROM \$125.00



POWER SUPPLIES

FUNCTION	Model 605	Model 610
DC Output: Voltage	5 V (adj. ± 0.5 V)	5 V (adj. ± 0.5 V)
Current	5 A	10 A
Input	105–130 vac 45 to 440 Hz	105–130 vac 45 to 440 Hz
Regulation with $\pm 10\%$ line voltage zero to full load	$< 0.1\%$ $< 0.25\%$	$< 0.1\%$ $< 0.25\%$
Transient Response	10 μ sec	10 μ sec
Short-circuit protection	Current Limit 1 mv p-p	Current Limit 1 mv p-p
Ripple		
Price basic unit	\$125.00	\$139.00
Built-in overvoltage protection	\$18.00 addtl.	\$18.00 addtl.

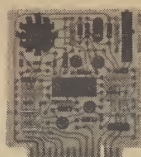


OVERVOLTAGE PROTECTOR

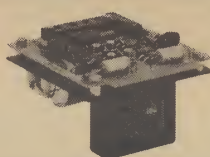
Model OV100

Self-contained package
Use with all type power supplies
Adjustable trip point . . . 4-10v
Fast response time . . . 200 nsec.
High current capability . . .
10 A continuous
Low Price \$39.50

Analog and Digital System Supplies



500



506



504
505
507
508

Function	500	504	505	506	507	508
DC Output: Voltage	3–32 vdc adj.	3–32 vdc adj. (each channel)	3–6 vdc adj.	± 12 to ± 24 vdc adj.	3–6 vdc adj.	11–15 vdc adj.
Current	50 ma	1 amp (each channel)	8 amps	150 ma min.	5 amps	4 amps
Input	32 v rms $\pm 10\%$ 0–1 KHz	105–125 vac 45–440 cps	105–125 vac 45–440 cps	105–130 vac 45–440 cps	105–125 vac 45–440 cps	105–125 vac 45–440 cps
Regulation: With $\pm 10\%$ Input Voltage	$< 0.02\%$	0.01%	0.02%	0.03%	0.015%	0.02%
Zero to Full-Load	$< 0.02\%$	0.015%	0.02%	0.15%	0.015%	0.02%
Protection	Current limit @ 55 ma	Current limit @ 1.4 amp	Current limit @ 8.5 amp	Current limit @ 250 ma	Current limit @ 5.5 amp	Current limit @ 4.5 amps
Ripple and noise	$< 0.005\%$	< 1 mv p-p	< 1 mv p-p	< 0.8 mv p-p	< 1 mv p-p	< 1 mv p-p
Price (small quantity)	\$55.00	\$230.00	\$199.00	\$95.00	\$190.00	\$199.00

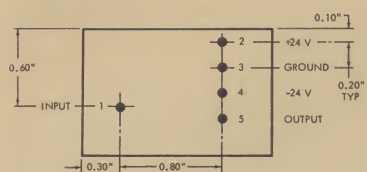
Quantity discounts are available on all RO Modules shown. See your local RO representative or write direct for complete information or application assistance on these products or allied analog components. Custom designs can be developed to fit your special requirement.

Albuquerque, New Mexico (505) 265-1020 • Chalfont, Pennsylvania (215) 822-2553 • Chicago, Illinois (312) 775-5300 • Cumberland, Rhode Island (401) 333-5054 • Dallas, Texas (214) 363-1526 • Englewood, Colorado (303) 781-0912 • Fairborn, Ohio (513) 878-2631 • Houston, Texas (713) 649-5756 • Livonia, Michigan (313) 476-5758 • Lodi, New Jersey (201) 342-4119 • Minneapolis, Minnesota (612) 922-7011 • Orlando, Florida (305) 855-0274 • Scottsdale, Arizona (602) 947-4336 • Seattle Washington (206) 622-0622 • Silver Spring, Maryland (301) 587-5115 • St. Louis, Missouri (314) 428-5313 • Van Nuys, California (213) 873-6862 • Export, N. Y. (212) 581-4447.

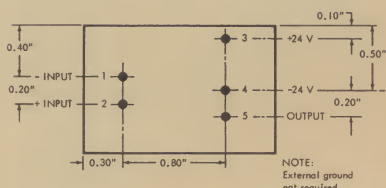
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PIN CONNECTIONS

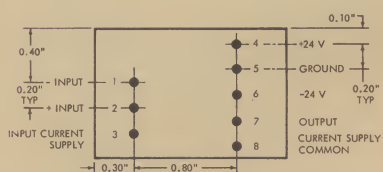
MECHANICAL DIMENSIONS



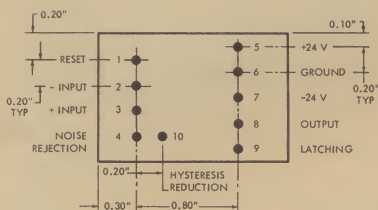
C01



C05

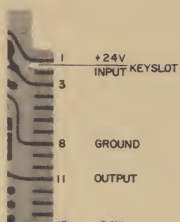


C33

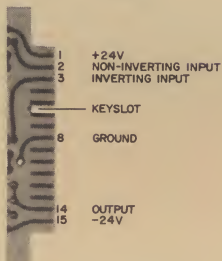


C50

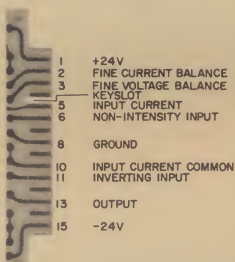
Note: All pins #22 gauge wire
(.035" diameter)



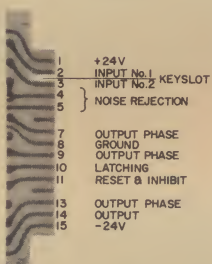
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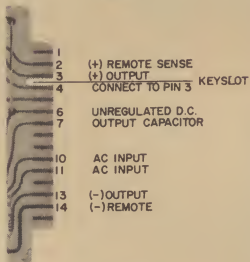
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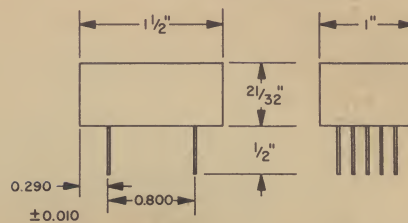
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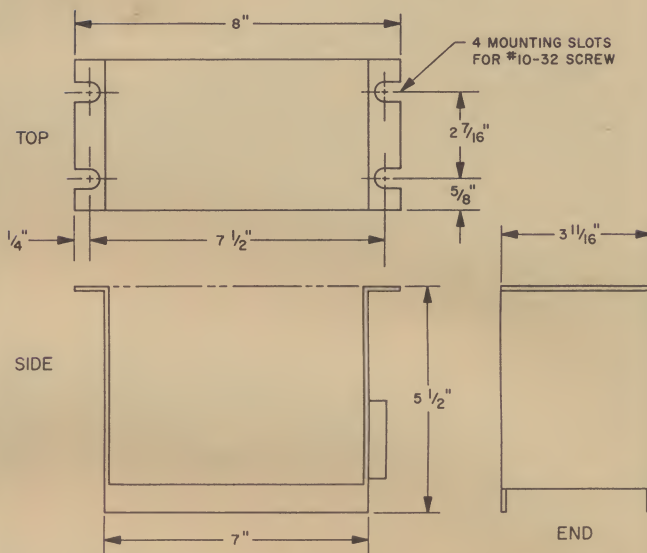
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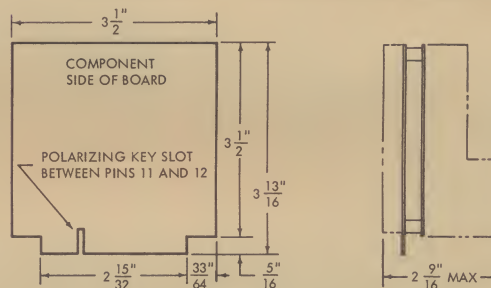
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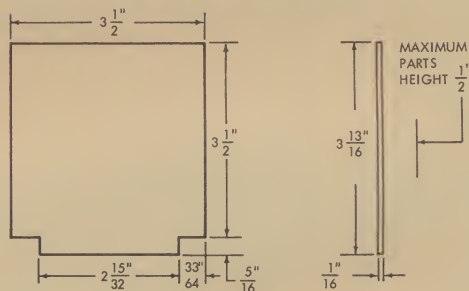
Encapsulated functional analog modules



Model 504, 505, 507 and 508 power supplies



Model 506 power supply



Open P-C Board functional analog modules